Earth Science

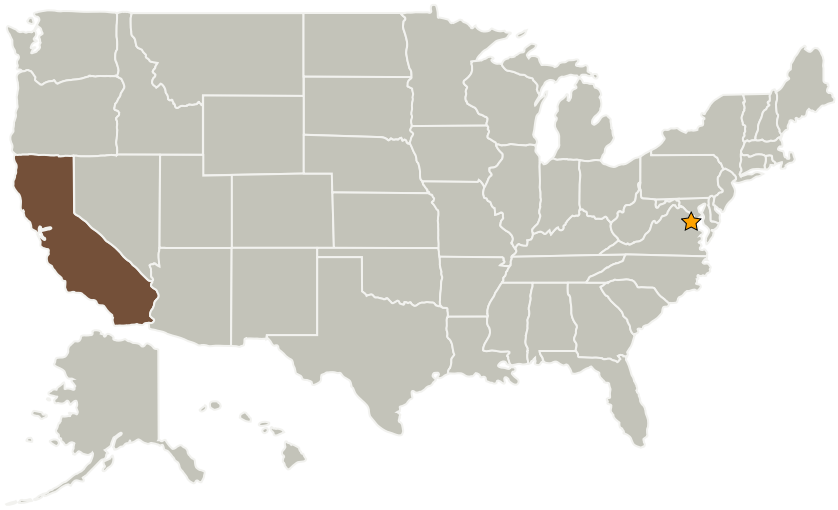
Portable Remote Imaging Spectrometer (PRISM)

Completed Technology Project (2009 - 2012)

Project Introduction

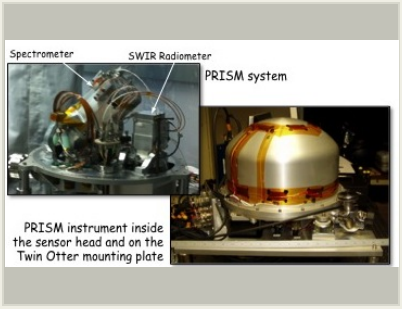
Develop an UV-NIR (350nm to 1050 nm) portable remote imaging spectrometer (PRISM) for flight on a variety of airborne platforms with high SNR and response uniformity optimized for coastal ocean science:
Unprecedented sensitivity for assessing the large dynamic range in observed coastal reflectance at ~3 nm spectral resolution
Provide performance exceeding the state-of-the-art in light throughput, spectral and spatial uniformity, and polarization insensitivity by factors of 2-10, while extending the spectral range into ultraviolet
Provide a two-channel SWIR (1240 nm and 1640 nm) radiometer to facilitate application of the atmospheric correction algorithm

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia

Primary U.S. Work Locations
California



Project Image Portable Remote Imaging Spectrometer (PRISM)

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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

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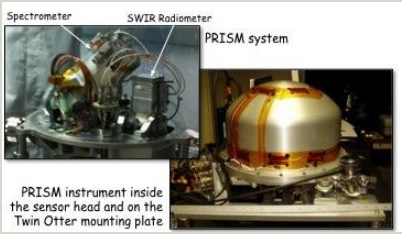
Images



11904-1362065670654.jpg
Project Image Portable Remote Imaging Spectrometer (PRISM)
(https://techport.nasa.gov/image/1663)

Project Management

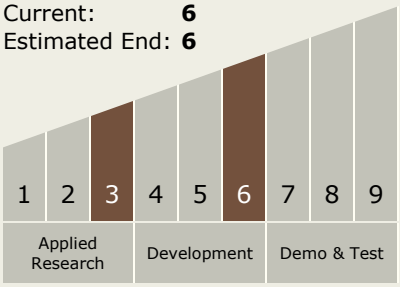
Program Director:
George J Komar

Project Manager:
Parminder S Ghuman

Principal Investigator:
Pantazis Mouroulis

Technology Maturity (TRL)

Start: **3**
Current: **6**
Estimated End: **6**



Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.1 Detectors and Focal Planes

Target Destination

Earth